

AGA400 Ultra Low-Loss RF Coaxial Cable Datasheet

Cellular 4G LTE CBRS 5G NR 600MHz~6000MHz / GPS GNSS 1562-1612MHz / WiFi 6 2.4GHz~6GHz

Physical Specifications	Center Conductor	Solid CCA
	<i>Conductor Dia. (+/-0.02mm)</i>	2.74
	<i>Min. Break Strength (N)</i>	640
	Insulation	Foamed Polyethylene
	<i>Insulation Dia. (+/-0.10mm)</i>	7.24
	<i>Color</i>	Neutral
	<i>Centricity (%)</i>	≥ 90
	<i>Adhesion</i>	10 to 100N @ 25mm
	1st Outer Conductor	Bonded Aluminum Foil
	<i>Overlapping</i>	≥ 115%
	<i>Dia. (+/-0.10mm)</i>	7.39
	2nd Outer Conductor	Tinned Copper Braid
	<i>Conductor Dia. (+/-0.01mm)</i>	0.15
	<i>No. of Wires</i>	192
	<i>Coverage (+/-3%)</i>	95
	Outer Jacket	PE
	<i>Outer Dia (+/-0.10mm)</i>	10.29
	<i>Tensile strength</i>	≥ 16.2 N/mm ²
	<i>Elongation at break</i>	≥ 700 %
	<i>Adhesion</i>	20 to 80N @ 50mm
	Cable Lengths	
	<i>Standard Lengths</i>	20ft 30ft 50ft 75ft 100ft
	<i>Custom Lengths</i>	Available on Request
	Connector End Options	All Standard Connector Ends
Properties	Min. Bending Radius:	25.4 mm
	Max. Pulling Tension	740 N
	Crush Resistance (Load of 700)	< 1 %
	Admissible Ambient Temperature	-40~+85 °C
Electrical Characteristics	Characteristic Impedance	50 +-3ohm
	Capacitance	78 ±3pF/m
	Velocity Ratio	> 85 %
	DC Resistance: Centre Conductor	< 4.60 ohm/km
	DC Resistance: Outer Conductor	< 5.40 ohm/km
	Peak Power rating	16.00 Kw
	Cut Off Frequency	16.20 GHz
	Insulation Resistance	> 5,000 MΩ·km
	Dielectric Strength	1600 VAC
	Voltage Withstand	2500 VDC
Screening Factor at 1 - 1000MHz	> 90 dB	

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Attenuation	Frequency	Attenuation (20 °C)	
		30 MHz	0.67
	50 MHz	0.88	dB/100Ft
	100 MHz	1.31	dB/100Ft
	150 MHz	1.52	dB/100Ft
	220 MHz	1.86	dB/100Ft
	450 MHz	2.71	dB/100Ft
	900 MHz	3.90	dB/100Ft
	1500 MHz	5.12	dB/100Ft
	1800 MHz	5.67	dB/100Ft
	2000 MHz	5.97	dB/100Ft
	2500 MHz	6.77	dB/100Ft
	3000 MHz	7.62	dB/100Ft
	5800 MHz	10.8	dB/100Ft

AGA400 Ultra Low-Loss RF Coaxial Cable
 Times Microwave LMR Equivalent Technology



- Solid CCA Inner Conductor
- Foamed Poly Insulation
- Bonded Aluminum Foil
- Tinned Copper Braid Outer Conductor
- Polyethylene Jacket

